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AGRICULTURAL MEMORANDUM NO 452

Return to Capacity. Wheat & Fallow Acreages - EAST

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Mean return dates were found by taking sample stations for each part of the region (as per Tech Bull 24) and

Weighting w.r.t. total cereal acreage - Rc (where S1 = 1)
Weighting w.r.t. wheat acreage - Rw

and these were compared to the fallow acreage (F) and the wheat acreage (W) respectively (in units of 1000 acres).

Results

Year	Rc	F	Rw	W	Estimated W
1959	5.1	108.6	4.6	644.6	630
1961	5.3	86.9	5.4	620.7	663
1966	8.2	55.2	8.4	759.4	759
1967	8.2	51.1	8.3	760.9	770
1968	8.8	40.6	9.0	800.7	790
1962	9.4	46.9	9.7	750.3	723
1964	9.9	51.8	10.2	760.9	754
1960	11.5	51.9	11.5	720.2	718
1963	13.2	59.0	13.6	668.0	-
1965	16.6	41.2	17.2	831.7	843

Mean error 14.0 (2%)

The correlation between log Rc and log F is - 0.77

The formula used to estimate the wheat acreage is

$$579.3 + 11.0\ Rw + 12.4\ n$$

where n is the number of years after 1959.

1963 was omitted owing to heavy winter snows. As spring conditions have been ignored and the total of spring sown wheat is unknown, the fit is not unsatisfactory.

The values of Rw in 1969 and 1970 were 2.2 and 11.4 giving estimates

	Wheat acreage
June 1969	727,500
June 1970	841,100

Any comments or suggestions on this paper should be referred to the author.

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